

HINDUSTANI ACADEMY

UNITED PROVINCES

Library of the Hindustani Academy

Established in 1904

Aligarh, U.P.

Library of the Hindustani Academy

Established in 1904

Aligarh, U.P.

7. For the year 1904-05 the total amount of the grant-in-aid is Rs. 10,000/-

8. The grant-in-aid is to be paid in four instalments of Rs. 2,500/- each, during the year.

9. The grant-in-aid is to be paid to the Hindustani Academy, Aligarh, U.P.

10. The grant-in-aid is to be paid to the Hindustani Academy, Aligarh, U.P.

atalogue of Indian Insects

ART 7—Lasiocampidae

BY

BAINBRIGGE FLETCHER,

R.N., F.L.S., F.E.S., F.Z.S.,

Imperial Entomologist.



under the authority of the Government of India.

CALCUTTA : GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1925

Catalogue of Indian Insects

LASIOCAMPIDÆ.

1. Bhima, Moore (1888).

Bhima, Mo., P. Z. S., 1888, 403-404; Hmps. n., Type :—*undulosa*, Wlk
F. I. Moths I 104 (1892) [redescr.]; Grün-
berg, Seitz Lep. Pal. II, 177 (1911) [redescr.]

undulosa, Walker.

Pœcilocampa undulosa, Wlk., Cat. VI, Kangra ^{2 3 6 8}
1477 (1855) ¹ ♀ Nepal ^{1 2}

Bhima undulosa, Mo P. Z. S. 1888 404 Sikkim.⁵
(1888)²; Hmps. n., F. I. Moths I 104, Darjiling.
f. 279 (1892)³; Swinh, T. E. S. 1895. Khasis ³
27 (1895)⁴, Dudgeon, B. J., XIII. 406
(1901)⁵; Grünberg, Seitz Lep. Pal, Cherrapunji.^{3 4}
II, 178 (1911)⁶; Turner, T. E. S., 1918, Manipur.³
p. 180, f. 46 [neurulation]⁷; Grünberg,
Seitz Lep. Indo-austral, II, 393, t 34a South Asia.⁸
(1923) [redescr.].⁸

Larva, shortly descr.³ Sunda Isds.⁸

2. Taragama, Moore (1859).

Taragama, Mo., Cat. Lep. E. I. Co., p. 427 Type :—*swa*, Lef.
(1859), Mo., Lep Ceylon II 147 (1883),
Hmps. n., F. I Moths I, 404 (1892) [redescr.];
Grünberg, Seitz Lep. Pal. II 175 (1911)
[redescr.]; *id*, Seitz Lep Indo-austral II
393 (1923).

dorsalis, Walker.

Megasoma dorsalis, Wlk, Cat XXXV N-W Himalaya ^{1 13}
1947-1948 (1866) ¹ ♂ Kangra.^{5 6 11}
Taragama igniflua, Mo., Lep. Ceylon II Khatmandu (Nepal).
147, t. 142 ff. 2, 2a (1883).² ♂ ♀ Sikkim (1800 ft.).⁹
Taragama hyperantheræ Mo., P. Z. S. Calcutta.^{3 7}
1883, 18, t. 5 f. 5 (1883)³ ♂ Bengal.¹

CATALOGUE OF INDIAN INSECTS

3. *Suana*, Walker (1855).

ana, Wlk., Cat. VI 1502 (1855); Mo., Lep. Type:—*concolor*, Wlk
Ceylon II 151 (1883); Hmps., F I Moths
I. 406 (1892) [redescr.]; Grünberg, Seitz
Lep. Pal. II 178 (1911) [redescr.].

concolor, Walker.

- Lebeda concolor*, Wlk., Cat. VI 1463 Throughout India.⁹
(1855)¹ Kashmir.¹³
Lebeda bimaculata, Wlk., Cat. VI 1463 Sikkim.¹³
(1855)² Bhutan.¹³
Suana ampla, Wlk., Cat. VI 1502 (1855).⁹ Sylhet.^{1 2 3}
Suana cervina, Mo., P. Z. S. 1879 410 Shillong.¹¹
(1879)⁴; Mo., Lep. Ceylon II 152, t Cherrapunji.¹¹
139 ff. 2, 2^a (1883).⁵ Polibetta (Uoorg).
Suana bimaculata, Mo. Cat. Lep. E I Shembaganur (Pal
Co. II 428, t. 13^a, ff. 2, 2^a (1859)⁶; Mo., 6,000 ft.).
Lep. Ceylon II 152, t. 140 ff. 1, 1^a, 1^b Ceylon.^{4 5 7 9 13 14}
[larva] (1883)⁷; Butl., Ill. IIet VI 2, Kandy.¹⁰
t. 101 ff. 3, 4 (1886).⁸ Matale.¹⁴
Suana concolor, Hmps., F. I. Moths I Nawalapitiya.¹⁰
406-407, f. 281 [male], f. 278 [larva] Ramboda.¹⁰
(1892) [redescr.]; Hmps., Ill. Het.
IX 9 (1893)¹⁰; Swinh., T. E. S. 1895 Sumatra.¹⁵
27 (1895)¹¹; Dudgeon, B. J. XIII 406 Java.^{1 9 15 8}
(1901)¹²; Grünberg, Seitz Lep. Pal. II Philippines.^{2 9 15}
178, t. 29c (1911)¹³; White, Spol. Zeyl.
XI 299-302, tab. (1920)¹⁴; Grünberg,
Seitz Lep. Indo-austral. II 393 (1923)¹⁵
Larva descr.^{7 9 13 11}, on *Careya ar-*
*borea*⁷, *Psidium guyana*¹³, *Cajanus*
*indicus*¹⁴, *Hibiscus rosa-sinensis*¹⁴,
*Shorea robusta*¹⁴, "*Daminiya*"
(?= *Grewia tiliaefolia*)¹⁴, occasion-
ally on tea.¹⁴ Biology.¹⁴

4. *Paralebeda*, Aurivillius (1894).

ralebeda, Auriv., Deuts. ent. Zeitschr., Lep. Type:—*plagifera*, Wl
VII 178 (1894); Grünberg, Seitz Lep. Pal.
I 174-175 (1911) [redescr.]; *id.*, Seitz Lep.
Indo-austral II 393 (1923).

[*nec Paralebeda*, Hamp., A. M. N. D. (8) VI 119
(1910) (Teragridæ).]

plagifera, Walker.

- Lebeda plagifera*, Wlk., Cat. VI 1159-1160 N.-W. Himalay
(1855).¹
Opsirhina erinacea, Felder, Reise Novara, Simla.²
Lep. IV, t. 84 f. 3 (1874).² Nepal.^{1 2 3}
Odontostis plagifera, Butl., Ill. Het. V 23. Khatmandu.
t. 99 f. 5 (1881)²; Hampson, F. I. Moths Sikkim (2,000-3
I 127 (1892) [redeser.]⁴; Swinh., T. E. S. Darjiling.
1895 28 (1895)⁵; Dudgeon, B. J. XIII Cherrapunji.⁵
411 (1901).⁶
Paralebeda plagifera, Grünberg, Seitz Java.^{1 2}
Lep. Pal. II 175, t. 30d (1911)⁷, *id.*, Guiana² [error
Seitz Lep. Indo-austral II 393 (1923).⁶

5. Lebeda, Walker (1855).

- Lebeda*, Wlk., Cat. VI 1453 (1855); Mo., Lep. Type :—*nobilis*
Ceylon II 150 (1883), Hampson, F. I. Moths
I 407 (1892) [redeser.]; Grünberg, Seitz
Lep. Pal. II 174 (1911) [redeser.]; *id.*, Lep.
Indo-Austral. II 392 (1923) [redeser.].

nobilis, Walker.

- Lebeda nobilis*, Wlk., Cat. VI 1453 Kashmir.⁶
(1855)¹; Butl., Ill. Het. V 74, t. 100 Kangra.⁶
ff. 5, 6 (1881)², Hampson, F. I. Moths Simla.
I 407-408, f. 282 (1892) [redeser.]³; Masuni.
Swinh., T. E. S. 1895 27 (1895)⁴; Nepal.^{1 2 3}
Dudgeon, B. J. XIII 406 (1901)⁶; E. Himalaya.²
Grünberg, Seitz Lep. Pal. II 174, t. 30c Sikkim.⁶
(1911) [redeser.]⁶; *id.*, Lep. Indo-aus- Bhutan.⁵
tral. II 392 (1923).⁷ Sylhet.^{1 2 3}
Shillong.
Cherrapunji.⁴
Nagas.^{3 4}

6. *Dendrolimus*, Germar (1812).

- Dendrolimus*, Germ., Syst. Gloss. Prodr., p. 48 Type:—*pini*, Linn.
(1812); Curt., Bnt. Ent. I, t. 4 (1824); [Europe; N. Asia.
Kirby, Cat. Het. I 813 (1892); Lecch,
T. E. S. 1899 109; Grünberg, Seitz Lep.
Pal. II 171 (1911) [redescr.]; *id.*, Lep.
Indo-austral. II 405 (1923) [sep. from
Metanastria].
- Metanastria*, Hubner, Verz. p. 186 (1822); Type: *hyriaca*, Cr.
Hmps., F. I. Moths I 408 (1892) [redescr.],
Grünberg, Seitz Lep. Indo-austral. II 394
(1923) [redescr.].
- Eutricha*, Stephens, Ill. Brit. Ent. Haust. II Type: *pini*, Linn.
50 (1828); Wlk., Cat. VI 1405 (1855).
- Æona*, Walker, Cat. VI 1417 (1855). Type: *punctata*, Wlk.
[China].
- Chatra*, Moore, Lep. Atk. p. 80 (1873). Type: [*latipennis*, Wlk.
=] *grisea*, Mo.

aconyta, Cramer.

- Bombyx aconyta*, Cram, Pap. Exot. II, t. Sikkim.⁸
131A (1777).¹ Darjiling.¹¹
- Bombyx quadricincta*, Fabr., Mantissa II Bengal.^{3 11 4}
111 (1787).² Cherrapunji.⁵
- Dirphia? aconyta*, Wlk., Cat. VI 1370 Kanara.^{8 11}
(1855).³ Coromandel.²
- Lasiocampa trifascia*, Wlk., Cat. VI 1439
(1855).⁴
- Lasiocampa substrigosa*, Wlk., Cat. VI
1441 (1855).⁵
- Lebeda opponens*, Wlk., Cat. VI 1462
(1855).⁶
- Lasiocampa subparallelata*, Wlk., Cat.
XXXII 562 (1865).⁷
- Metanastria aconyta*, Hmps., F. I. Moths
I 408-409 (1892) [redescr.];⁸ Swinh.,
T. E. S. 1895, 27 (1895)⁹; Dudgeon,
B. J. XIII 407 (1901) [not found in
Sikkim]¹⁰; Grünberg, Seitz Lep. Indo-
austral. II 395, t. 34 f. c [female] (1923)
[redescr.]¹¹

ampia, Walker.

- Odenestus ampia*, Wlk., Cat. VI 1113 Kangra.⁶
(1855).¹
- Lebeda ferruginea*, Wlk., Cat. VI 1458 Sikkim.^{4 6}
(1855).² Bhutan.⁸
- Lebeda ampla*, Butl., Ill Het. V 72, t. 99 Khasis.⁵
ff. 3, 4 (1881)³ Shillong.
- Metanastria ampla*, Hmps., F. I. Moths Sylhet.^{1 2 4}
I 410 (1892) [redescr.]⁴; Swinh., Burma.⁶
T. E. S. 1895 27 (1895)⁵; Dudgeon,
B. J. XIII 407 (1901)⁶; Grünberg, Sumatra.⁷
Sertz Lep. Indo-austr. II 395, t. 34 Java.^{5 7}
f. c [male] (1923) ⁷ Philippines.^{4 7}
Larva on *Artemisia*.⁶

fia, Swinhoe.

- Lenodora fia*, Swinh., A. M. N. H. (7) Kashmir.^{1 2 3}
III 113 (1899)¹; Hmps., B. J. XIII
233, t. B ff. 17, 18 (1900) [redescr.]²;
Grünberg, Sertz Lep. Indo-austr. II
404, t. 33 f. g [female], t. 46 f. b [male]
(1923) [redescr.].

fulgens, Moore.

- Lebeda fulgens*, Mo., Lep. Atk. p. 81 Darjiling.^{1 3}
(1879).¹ Sikkim.^{2 4}
- Metanastria fulgens*, Hmps., F. I. Moths Bhutan (6,400
I. 409 (1892) [redescr.]²; Dudgeon,
B. J. XIII 407 (1901)³; Grünberg,
Sertz Lep. Indo-austr. II 195, t. 34
f. b (1923) [redescr.].

hyrtaca, Cramer.

- Bombyx hyrtaca*, Cram., Pap. Exot. III, Dharmasala.⁹
t 249 F (1780).¹ E. Himalaya.
- Bombyx lusca*, Fabr., Mantissa II 112 Kalimpong.¹³
(1787).² Pusa
- Bombyx laricis*, Hübner, Beytr. Schm. II Calcutta.
(vi) p. 48, t. 3 f. O, II (vi) p. 67, t. 2 Assam.¹²
f. M (1791).³ Bombay.¹¹

- Dendroica bairdii*, Leif. Zool. Journ. III Mhow ^{7 11}
 201 (1827) ⁶ Balaghat (C. P.).
- Bombix buddha* Leif. Zool. Journ. III Ganjam. ¹²
 209 (1827) ⁵; Mo., Cat. Lep. E. I. Co. Madras. ¹¹
 t. 12a ff. 2, 2a^b; Fersarich, T. E. S. Trivandrum ¹⁵
 1831 187 t. 15 ff. 3, 3a, 3b [larva]. ⁷ Ceylon. ^{8 10 11 16}
- Labea phagata*, Wlk., Cat. VI 1464 Colombo. ¹²
 (1855) ⁵ Kandy. ¹²
- Lecanospira bhara* Mo., P. Z. S. 1879 410, Rangoon.
 t. 3 t. 2 (1879) ⁷
- Metanastria hyrtica*, Mo., Lep. Ceylon II Sunda Isds. ¹⁶
 148. t. 14 ff. 1, 1a, 1b (1883) ¹²; China. ¹⁶
 Hampson, H. I. Moths I 410-411, f. 233
 (1892) [Fedorov, ¹¹ Hupson, III Hct.
 IX 9 (1893) ¹², Elwes, B. J. XIII 407
 (1900) ¹² Grunberg, Sciz. Lep. Pol.
 II 177, t. 29 f. a (1911) [Taragama] ¹⁴;
 Fletcher, Pusa Bull. 69, p. 25, f. 11
 (1919) [larva of this specimen] ¹², Grun-
 berg, Sciz. Lep. Indo-austr. II 395.
 t. 34 ff. e (1923) ¹⁶; Lafroy, Ind. Ins.
 Life, p. 497, ff. 332, 333 (1909) ¹⁷,
 Fletcher, S. Ind. Ins. pp. 409-410, f.
 282 (1911) ¹⁸, *id.*, Rept. Second Entl.
 Meeting, pp. 38, 249 (1917) ¹²; *id.*,
 Rept. Third Entl. Meeting, p. 103
 (1919) ²⁰
- Larva* descr. ^{10 11 12 18}, on *Schinus*
mollis ¹³, *Eugenia jambolana* ¹⁶,
Alnus arbutica ²⁰, *Mimusops elae-*
gnus ¹⁸, *Terminalia catappa* ¹⁸, *Nyc-*
tanthes arbor-tristis ¹⁸, *Albizia sti-*
pulata. ²⁰
- latipennis, Walker.**
- Lebeda latipennis*, Wlk., Cat. VI 1457 Dharmasala ⁷
 (1855). ¹ Darjiling. ^{5 8}
- Lebeda variegata*, Mo., A. M. N. H. (4) XX Sikkim. ^{10 13}
 17 (1877) ²; Mo., Lep. Ceylon II 151, Khasia. ⁸
 t. 129 f. 1 (1893). ³ Shillong.
- Chitra grisea*, Mo., Lep. Atk. p. 80 Chornapung. ^{4 12}
 (1879). ⁴ Calcutta ¹⁰ [error loc.]

- Lebeda placida*, Mo., Lep. Atk. pp. 80-81 (1879).⁵ Darjeeling.¹
Lebeda vulpina, Mo., Lep. Atk. p. 81 (1879).⁶ Darjeeling.¹
Eutricha lebeda, Mr., P. Z. S. 1879, 115 (1879).⁷ Darjeeling.¹
Lebeda fuscata, Mr., T. E. S. 1881, 378 (1881).⁸ Darjeeling.¹
Odonestis latipennis, Butler, Ill. Het. V 72, t. 99, ff. 1, 2 (1881).⁹
Metanastria larpida, Hampson, P. I. Moths I 409 (1892) [redescrip.], Hampson, Ill. Het. IX 9 (1893)¹⁰, Swinh., T. E. S. 1895 27 (1895)¹¹, Dudgeon, B. J. XIII 107 (1901)¹², Grünberg, Seitz Lep. Indo-austr. II 395, t. 34 ff. 6, c (1923) [redescrip.].¹³
*Larva descr.*¹⁴

lidderdalii, Butler.

- Lebeda lidderdalii* Butler, Ill. Het. V 73, t. 100 ff. 1, 2 (1881).¹ Darjeeling.¹
Lebeda stigmata, Butler, Ill. Het. V 73, t. 100 ff. 3, 4 (1881).² Bhutan.^{1 3 4 5}
Metanastria lidderdalii, Hampson, F. I. Moths I 410 (1892) [redescrip.], Dudgeon, B. J. XIII 407 (1901)⁴; Grünberg, Seitz Lep. Indo-austr. II 395-396, t. 31 f. d (1923) [redescrip.].⁵

lineata, Moore.

- Lebeda lineata* Mo., Lep. Atk. p. 81 (1879).¹ Darjeeling.¹
Odonestis lineata, Hampson, F. I. Moths I 427-428 (1892) [redescrip.].² Sikkim.^{2 3}
Metanastria fuscumarginata, Swinh., T. E. S. 1895 27-28, t. 1 f. 7 (1895)⁷; Hampson, F. I. Moths IV 47 (1900) [redescrip.].⁸ Kurseong.
Metanastria lineata, Dudgeon, B. J. XIII 108 (1901)⁵, Grünberg, Seitz Lep. Indo-austr. II 396, t. 35 f. c (1923) [redescrip.].⁶ Cherrapunji.²

nanda, Moore.

- Lebeda nanda*, Mo., Cat. Lep. E. I. Co. II Darjiling.¹
423, t. 12a f. 3 (1859).¹ Sikkim.²⁻⁴
- Metanastria nanda*, Hmps., F. I. Moths
I 409 (1892) [redescr.]², Dudgeon,
B. J. XIII 407 (1901)³; Grünberg,
Seitz Lep. Indo-austr. II 395, t. 34
f. 5 (1923) [redescr.]⁴

obliquifascia, Swinhoe.

- Metanastria obliquifascia*, Swinh. Cat. Darjiling.^{1 4}
Het. Mus Oxon I 263-264 (1892)¹, Sikkim.²
Hmps., F. I. Moths I 112 (1892) Shillong.³
[redescr.]²; Swinh., T. E. S 1895 27
(1895)⁴, Grünberg, Seitz Lep. Indo-
austr. II 396 (1923) [redescr.]⁴

recta, Walker.

- Lebeda recta*, Wlk., Cat. VI 1461 (1835).¹ N. India.^{1 2 4 5}
- Metanastria recta* Hmps., F. I. Moths I Sikkim.³
411 (1892) [redescr.]⁴; Dudgeon, B. J
XIII 108 (1901) [female descr., pro-
bably of *repanda*]³; Grünberg, Seitz
Lep Pal II 177 1911 [*Taragama*]¹:
id., Lep. Indo-austr. II 396, t. 34 f. 6
(1923) [redescr.]⁴

repanda, Walker.

- Lebeda repanda*, Wlk., Cat. VI 1460 Nepal.³
(1855)¹, Butl., Ill. Het. VI 2, t. 101 ff. Darjiling distr.
1, 2 (1886).² Sikkim (1,800 ft.).⁵
- Metanastria repanda*, Hmps., F. I. Assam.^{2 4}
Moths I 411 (1892) [redescr.]²; Swinh., Khasia.⁴
T. E. S. 1895 27 (1895)⁴, Dudgeon, Sylhet.¹
B. J. XIII 407-408 (1901) [male descr., Bassein.³
of *repanda*]²; Grünberg, Seitz Lep
Indo-austr. II 396, t. 33 f. 6 (1923)
[redescr.]⁴

subpurpurea, Butler.

Deilephila purpurea (B. & G.) (1861) 12 (1881) 12
 1881 12 (1881) 12

Odonestis dictamnii Griseb., Berl. Ent. Zeit. XXXII 128 (1887) 12
 Japan, Amur

Metanastria rubra Hampson, F. L. Moth. IX 186-187 (1896)², ed. B. J. XI 204 (1897) [syn. of *dictamnii*]¹

Metanastria subpurpurea Grunberg-Sanz Lep. Pal. II 161, f. 26 f. c (1911)¹
 ed. Lep. Indo-austr. II 298 (1923)¹

undans, Walker.

Lebeda undans, Wlk., Cat. VI, 145 (1859) 12 (1855)¹ Khasi

Bombus fasciatus Ménétrier, Coll. Acad. Peterb. XVII 218 (1858)², Schrank, Amur Reisen, p. 55, t. 4, f. 8 (1859)²; Marath.

Bremer, Lep. Ost. Siber., p. 42 (1861)²; Fixsen, Russ. Mem. III 314 (1877)¹

Odonestis excellens, Butl., A. M. N. H. (1) XX, 481 (1877)⁶; id., Ill. Het. II 19, t. 26, ff. 4, 5 (1878)⁷ Java^{1, 2}
 Amur^{2, 14}

Odonestis excellens var. *unicolor*, Oberth. Et Ent. V 38 (1881)⁸ A. Cold Ind⁹

Metanastria undans, Hampson, F. L. Moths I 410 (1892) [redeser]¹⁰; Swinh. T. E. S. 1895 27 (1895)¹⁰; Grunberg, Seitz Lep. Indo-austr. II 396, t. 34 f. d (1923) [redeser.]¹¹

Dendrobates undans, Leach, T. E. S. 1899 110 111 (1899)¹²; Grunberg, Seitz Lep. Pal. II 173 (1911)¹³

vitta, Moore.

Odonestis vitta, Mo., Cat. Lep. B. I. Co. Calcutta,³
 Mus. II 424, t. 12a f. 4. (1859)¹; Kirby,

Cat. Het. I 811 (1892) [*vitta*-laps.]² Sumatra¹

Metanastria vitta, Hampson, B. J. XX 110 (1910) [redeser.]¹⁴ Java^{1, 1}

Arguda vitta, Grunberg, Seitz Lep. Indo- Austr. II 399, t. 35 f. a (1923) [redeser.]¹ Borneo.^{3 4}

7. *Arguda* Moore (1879)

Arguda, Moore, Lep. Atk., p. 79 (1879), Type: *decurtata*, Mo.
Hmps., F. I. Moths I 412 (1892) [redeser.];
Grunberg, Seitz Lep. Pal II 178-179 (1911)
[redeser.]: *rd.*, Lep. Indo-austr II 298-
299 (1923) [redeser.].

Palthea Mo., Lep. Atk., p. 79 (1879) Type: *flavovittata*, Mo.

albigutta, Walker.

Opsirhina albigutta, Wlk., Cat. VI 1119-1120 (1855)¹ Sabathu.²

Arguda albigutta, Hmps., F. I. Moths I 411 (1892) [redeser.]²; (Grunberg, Seitz Lep. Indo-austr. II 400, t. 35 l. b (1923) [redeser.])² Australia.^{2 3}
Tasmania.^{1 4}

bheroba, Moore.

Odonestis bheroba, Mo., Cat. Lep. E. I. Co Mus. II 124, t. 128 f. 5 (1859).¹ Darjiling.³
Sikkim.^{2 3}
Arguda bheroba, Hmps., F. I. Moths I 413 (1892) [redeser.]²; Dudgeon, B. J. XIII 408 (1901) [variation]²; Grunberg, Seitz Lep. Indo-austr. II 399, t. 32 f. d (1923) [redeser.].¹ Ceylon.²
Singapore.²
Sunda Isds.⁴
Alloy.²
Philippines.²

pyralis, Lefeb.

Arguda pyralis, Lefeb., T. E. S. 1899 116 (1899). Grunberg, Seitz Lep. Indo-austr. II 400, t. 33 f. c (1923).² Pu-tai-tung.^{1 2}
[E. Tibet border].

decurtata, Moore.

Arguda decurtata, Mo. Lep. Atk. p. 79 (1879)¹; Hmps., F. I. Moths I 414 (1892) [redeser.]²; Swinn., T. E. S. 1899 116 (1899). Grunberg, Seitz Lep. Indo-austr. II 400, t. 33 f. c (1923) [redeser.].² Darjiling.^{1 2}
Sikkim (1,800 ft.).²
Cherrapunji.³

erectilinea, Swinhoe.

- Arguda erectilinea*, Swinh., T. E. S. 1904, India.²
 152 (1904)¹; Grünberg, Seitz Lep. Ceylon.²
 Indo-austr. II 399, t. 33 f. a [as *ble-*
roba, ex errore] (1923) [redeser.]⁴ Sumatra Is.³
 Philippines.⁴

flavovittata, Moore.

- Radlwa flavovittata*, Mo., Lep. V. k. pp. K. super?
 79-80 (1879).¹ Indonesta.²
Arguda flavovittata, Hampson, F. I. Moths 700
 I 412-113, f. 231 (1892) [redeser.]²; Namtial.¹
 Grünberg, Seitz Lep. Pal. II 171, f. 26 Bhutan.²
 f. d (1911)³, id., Lep. Indo-austr. II
 399, t. 34 f. c (1923) [redeser.].⁴

rectilinea, Hampson.

- Arguda rectilinea*, Hampson, F. I. Moths Bassau (Java).¹
 I. 414 (1892)¹; Grünberg, Seitz Lep.
 Indo-austr. II 400 (1923) [redeser.].²

rosea, Hampson.

- Radlwa rosea*, Hampson, Ill. Het. VIII Nilgiris (6,000 ft.).¹
 65, t. 141 f. 18 (1891).¹
Arguda rosea, Hampson, F. I. Moths I 413
 (1892) [redeser.]²; Grünberg, Seitz
 Lep. Indo-austr. II 399, t. 33 f. a (1923)
 [redeser.].³

vinata, Moore.

- Lebeda vinata*, Mo., P. Z. S. 1865, 820 Darjiling.^{1 2 3}
 (1865).¹
Arguda vinata, Hampson, F. I. Moths I
 413-414 (1892) [redeser.]²; Elwes,
 B. J. XIII 108 (1901)³; Grünberg,
 Seitz Lep. Indo-austr. II 399, t. 33
 f. b (1923) [redeser.].⁴

5 *Sybrastraea*, Moore (1881).

Sybrastraea, Mo., T. E. S. 1884, 373 (1881); Type: *minor*, Mo.
 Hmps., F. I. Moths I 414-415 (1892)
 [redescr.]; Grunberg Seitz Lep. Indo-
 austr. II 401 (1923) redescr.]

minor, Moore.

Metanastria minor, Mo., Lep. Atk pp. Darjiling¹
 78-79 (1879)¹ Sikkim (? low elevation).²

Sybrastraea minor, Hmps., F. I. Moths I
 415, f. 285 (1892) [redescr.]²; Elwes,
 B. J. XIII 408 (1901)³. Grunberg,
 Seitz Lep. Indo-austr. II 401, t. 35
 f. b (1923) [redescr.]⁴

9. *Bharetta*, Moore (1865).

Bharetta, Mo., P. Z. S. 1865, 820 (1865), Type: *cinnamomea*, Mo.
 Hmps., F. I. Moths I 415 (1892)
 [redescr.], Grunberg, Seitz Lep. Indo-
 austr. II 401 (1923) [redescr.]

cinnamomea, Moore.

Bharetta cinnamomea, Mo., P. Z. S. 1865, Darjiling.^{1 2 3 4}
 820, t. 43 f. 6 (1865)¹; Hmps., F. I.
 Moths I 415-416, f. 286 (1892)
 [redescr.]²; Hodgeon, B. J. XIII 409
 (1901)³ Grunberg, Seitz Lep. Indo-
 austr. II 401, t. 35 f. c (1923) [redescr.]⁴

flammans, Hampson.

Bharetta flammans, Hmps., F. I. Moths Manipur (6,000 ft.).¹
 I 416 (1892)¹, Grunberg, Seitz Lep.
 Indo-austr. II 401 (1923) [redescr.]²

10 *Odontocraspis*, Swinhoe (1894).

- *Odontocraspis*, Swinh., A. M. N. H. (6) XIV Type: *hasora*, Swinh.
 439 (1894); Hmps., F. I. Moths IV 187,
 f. 258 (1896) [redescr.]; Grunberg, Seitz
 Lep. Indo-austr. II 401 (1923) [redescr.]

basora, Swinhoe.

Odontheopachys basora Swinh., V. M. N. H. (Chin. ent. Soc. Trans.)
 (v) XIV (6) (1891)¹; *Id.* 7 (4) (1891)²
 28, t. 1 fl. 11, 11a (1895)³; Hampson
 F. L. Moths IV 437, f. 28 (1896)⁴; Boursier
 [redeser.]⁵; Grunberg, Saitz Lep.
 Indo-austr. II 301, t. 35 f. c, 923
 [redeser.]⁶.

11. Chilena, Walker (1855)

Chilena, Wlk., Cat. V 1070-1071 (1855)¹; Moths (type) 312.
 Lep. Ceylon III 543 (1887)²; Hampson F. L.
 Moths I 116 (1892)³; [redeser.]⁴; Grun-
 berg, Saitz Lep. Indo-austr. II 102 (1895)
 [redeser.]⁵.

similis, Walker.

Chilena similis, Wlk., Cat. V 1071 Peshawar.
 (1855)¹; Hampson F. L. Moths I 116 Putjah.²
 f. 287 (1892)³; [redeser.]⁴; Grunberg, Nojima.⁵
 Saitz Lep. Indo-austr. II 302, t. 33 f. c. Sa. m.
 (1923) [redeser.]⁶.

strigula, Walker.

Lasioampa strigula, Wlk., Cat. XXXII Peshawar.
 563 (1855)¹; Peshawar T. B. S. I. 1884.
 t. 14 fl. 4, 6a, 6b (1884)²
Chilena strigula, Hampson, F. L. Moths I 417
 (1892)³; [redeser.]⁴; *Id.* 10, 11a, 11b, 11c
 9 (1893)⁵; Grunberg, Saitz Lep. Indo-
 austr. II 302 (1895) [redeser.]⁶
 [1] *Chilena strigula* [redeser.]⁷; Wlk. f. d. n. Lep.
 Ceylon III 545, t. 712 f. 5 f. c, 712
 T. B. S. I. 1884.⁸

Larva describ. 2-4, ex. d. n. 1884.⁹

12. *Clisiocampa*, Curtis (1828)

Clisiocampa, Curt., Brit. Ent. V. t. 229 (1828), Type - *castrensis*, Linn.
 Steph., Ill. Brit. Ent., Hist. II 18 (1829); [Europe].
 Wlk., Cat. VI 1485 (1855); Kirby, Cat. Hel.
 I 838 (1892), Hampson, F. I. Moths I 417
 (1892) [redescri].

Malacosoma [nec Hb.], Grunberg, Seitz Lep.
 Pal II 150 (1911) [redescri.]; id. Lep. Indo-
 austr. II 402 (1923)

[Note — *Malacosoma*, Hubner 1822, equivalent to *Dip'ara*, Rambur 1860, both
 having *oti*, Ochs, as venotype is apparently distinct from *Clisiocampa*]

flavomarginata, Poujade.

Bombyx flavomarginata, Pouj., Bull. S. E. Moupin.¹

Fr. (6) VI. p. xii (1886).¹

Malacosoma flavomarginata, Kirby, Cat.

Hel. I 819 (1892)²; Leech, T. E. S.

1899. 117 (1899)³

indica, Walker.

Clisiocampa indica, Wlk., Cat. VI 1489 Simla.²

(1855)¹, Hampson, F. I. Moths I 417, Dehra Dun.²

f. 288 (1892) [redescri.].²

Muktesar (Kumaon;

Malacosoma indica, Grunberg, Seitz Lep. 7,000 ft.).

Indo-austr. II 402, t. 33 f. a (1923)

[redescri.].²

testacea, Motschulsky.

Clisiocampa testacea, Mots., Et. Ent. IX Pu-tan-fong.²

32 (1860).¹

Clisiocampa neustria, [nec Linn.], Leech, N. C. and W. China.²

T. E. S. 1899. 111 (1899)²; Grunberg, Japan.^{1 2}

Seitz Lep. Pal II 150-151. t. 24 f. b Korea.²

(1911).² Amur.²

vulpes, Hampson.

Clisiocampa vulpes, Hampson, B. J. XIII Chitral (10,000 ft.).¹

233. t. B f. 26 (1900).¹

Malacosoma vulpes, Grunberg, Seitz Lep.

Indo-austr. II 402 (1923) [redescri.].²

13. *Alompra*, Moore (1872)

Alompra, Mo. P. Z. S. 1872, 27 (1872). Type: *ferruginea*, Mo.
Hampen, P. I. Moths I, 417-418 (1892)
[redeser.]; Grünberg, Sitzb. Lp. Indo-
austr. II 102 (1923) [redeser.]

ferruginea, Moore.

Alompra ferruginea, Mo. P. Z. S. 1872, 261. Parjilina,¹
t. 317 p. (1872)¹; Hampen, P. I. Moths I, 417
t. 118, l. 2-3 (1892), not redeser.² Hampen (1892) l. 1,³
stated (1892) [redeser. P. I. Moths I, 417]
B. J. XII 109 (1901) [ferruginea redeser.];
Hampen, B. J. XX 111 (1911) [ferruginea
redeser.]; Grünberg, Sitzb. Lp. Indo-
austr. II 102 t. 151, d (1923) [redeser.];
Trichopuntia ferruginea, Guérin, Raff. Lich.
Et. Soc. XII 23, t. 6 f. 1 (1865);
Hampen, B. J. XX 111 (1911) [syn. of
ferruginea]; Grünberg, Sitzb. Lp.
Indo-austr. II 103 (1923) [redeser.];

14. *Kossala*, Moore (1872).

Kossala, Mo. P. Z. S. 1872, 167 (1872). Type: *virgata*, Mo.
Hampen, P. I. Moths I, 417 (1892) [redeser.];
Grünberg, Sitzb. Lp. Indo-austr. II 102
(1923) [redeser.]

lavosignata, Moore.

Estrocha lavosignata, Mo. Lp. Ind. Hampen,¹
pp. 77-78, t. 4 f. 17 (1872);
Kossala lavosignata, Hampen, P. I. Moths
I, 419 (1892) [redeser.]; Grünberg,
Sitzb. Lp. Indo-austr. II 103, t. 151
f. 2 (1923) [redeser.];

modulata, Swinhoe.

Alompra modulata, Swinhoe, T. E. S. Memoirs,¹ 22
1881, 187, t. 6 f. 28 (1881);

Kosala modulata, Hmps. F. I. Moths
I 419, f. 290 (1892) [redescr.]², Grün-
berg, Seitz Lep. Indo-austr II 403,
t. 35 f. d [as *undulata*] (1923) [redescr.]³

rufa, Hampson.

Kosala rufa, Hmps., F. I. Moths I 419 Nagas^{1 2}
(1892)¹, Grünberg, Seitz Lep Indo-
austr. II 403 (1923) [redescr.]³

sanguinea, Moore.

Kosala sanguinea, Mo., P. Z. S. 1879, 408, Khasis.^{1 2 5 6}
t. 33 f. 8 (1879)¹; Hmps., F. I. Moths Cherrapunji.³
I 418 (1892) [redescr.]², Swinh., T. E. Sikkim.^{2 6}
S. 1895, 28 (1895)³; Leech, T. E. S. Darjiling.⁵
1899, 112 (1899)⁴; Elwes, B. J. XIII Omer-shan.⁴
409 (1901)⁶; Grünberg, Seitz Lep.
Indo-austr. II 403, t. 35 f. d (1923)
[redescr.]⁶

15. Trichiura, Stephens (1828).

Trichiura, Steph., Ill. Brit. Ent., Haust. II 42 Type. *crataegi*, Linn.
(1828), Wlk., Cat. VI 1479 (1855); [Europe].
Rambur, Cat. Léop. Andal., p. 360
(1866); Hmps., F. I. Moths I 420
(1892) [redescr.]; Grünberg, Seitz
Lep. Pal. II 152 (1911) [redescr.];
id., Lep. Indo-austr. II 403 (1923)
[redescr.].

khasiana, Moore.

Trichiura khasiana, Mo., Lep. Atk. p. 82, Khasis.^{1 2 5}
t. 3 f. 21 (1879)¹; Hmps., F. I. Cherrapunji.³
Moths I. 429, f. 291 (1892) [redescr.]². Sikkim.^{2 5}
Swinh., T. E. S. 1895, 28; Darjiling.⁴
(1895)³; Elwes, B. J. XIII 409
(1901)⁴; Grünberg, Seitz Lep. Indo-
austr. II 403, t. 35 f. e (1923)
[redescr.]⁵

1. The first part of the document discusses the importance of maintaining accurate records of all transactions, both incoming and outgoing. It emphasizes that this practice is essential for ensuring transparency and accountability in financial management.

2. The second part outlines the various methods used to collect and analyze data. This includes conducting surveys, interviews, and focus groups to gather qualitative information, as well as utilizing statistical software to process quantitative data.

3. The third section describes the results of the study, highlighting key findings and trends observed across different demographic groups. It notes that while there are significant similarities in certain aspects, there are also notable differences in others, which may be attributed to cultural or regional variations.

4. Finally, the conclusion summarizes the overall objectives of the research and provides recommendations for future studies. It suggests that further exploration into the underlying factors influencing the observed patterns would be beneficial for developing more targeted interventions.

[illegible]

Travis Walker

1. The first of these is the fact that the
 2.
 3.
 4.
 5.
 6.
 7.
 8.
 9.
 10.
 11.
 12.
 13.
 14.
 15.
 16.
 17.
 18.
 19.
 20.
 21.
 22.
 23.
 24.
 25.
 26.
 27.
 28.
 29.
 30.
 31.
 32.
 33.
 34.
 35.
 36.
 37.
 38.
 39.
 40.
 41.
 42.
 43.
 44.
 45.
 46.
 47.
 48.
 49.
 50.
 51.
 52.
 53.
 54.
 55.
 56.
 57.
 58.
 59.
 60.
 61.
 62.
 63.
 64.
 65.
 66.
 67.
 68.
 69.
 70.
 71.
 72.
 73.
 74.
 75.
 76.
 77.
 78.
 79.
 80.
 81.
 82.
 83.
 84.
 85.
 86.
 87.
 88.
 89.
 90.
 91.
 92.
 93.
 94.
 95.
 96.
 97.
 98.
 99.
 100.
 101.
 102.
 103.
 104.
 105.
 106.
 107.
 108.
 109.
 110.
 111.
 112.
 113.
 114.
 115.
 116.
 117.
 118.
 119.
 120.
 121.
 122.
 123.
 124.
 125.
 126.
 127.
 128.
 129.
 130.
 131.
 132.
 133.
 134.
 135.
 136.
 137.
 138.
 139.
 140.
 141.
 142.
 143.
 144.
 145.
 146.
 147.
 148.
 149.
 150.
 151.
 152.
 153.
 154.
 155.
 156.
 157.
 158.
 159.
 160.
 161.
 162.
 163.
 164.
 165.
 166.
 167.
 168.
 169.
 170.
 171.
 172.
 173.
 174.
 175.
 176.
 177.
 178.
 179.
 180.
 181.
 182.
 183.
 184.
 185.
 186.
 187.
 188.
 189.
 190.
 191.
 192.
 193.
 194.
 195.
 196.
 197.
 198.
 199.
 200.
 201.
 202.
 203.
 204.
 205.
 206.
 207.
 208.
 209.
 210.
 211.
 212.
 213.
 214.
 215.
 216.
 217.
 218.
 219.
 220.
 221.
 222.
 223.
 224.
 225.
 226.
 227.
 228.
 229.
 230.
 231.
 232.
 233.
 234.
 235.
 236.
 237.
 238.
 239.
 240.
 241.
 242.
 243.
 244.
 245.
 246.
 247.
 248.
 249.
 250.
 251.
 252.
 253.
 254.
 255.
 256.
 257.
 258.
 259.
 260.
 261.
 262.
 263.
 264.
 265.
 266.
 267.
 268.
 269.
 270.
 271.
 272.
 273.
 274.
 275.
 276.
 277.
 278.
 279.
 280.
 281.
 282.
 283.
 284.
 285.
 286.
 287.
 288.
 289.
 290.
 291.
 292.
 293.
 294.
 295.
 296.
 297.
 298.
 299.
 300.
 301.
 302.
 303.
 304.
 305.
 306.
 307.
 308.
 309.
 310.
 311.
 312.
 313.
 314.
 315.
 316.
 317.
 318.
 319.
 320.
 321.
 322.
 323.
 324.
 325.
 326.
 327.
 328.
 329.
 330.
 331.
 332.
 333.
 334.
 335.
 336.
 337.
 338.
 339.
 340.
 341.
 342.
 343.
 344.
 345.
 346.
 347.
 348.
 349.
 350.
 351.
 352.
 353.
 354.
 355.
 356.
 357.
 358.
 359.
 360.
 361.
 362.
 363.
 364.
 365.
 366.
 367.
 368.
 369.
 370.
 371.
 372.
 373.
 374.
 375.
 376.
 377.
 378.
 379.
 380.
 381.
 382.
 383.
 384.
 385.
 386.
 387.
 388.
 389.
 390.
 391.
 392.
 393.
 394.
 395.
 396.
 397.
 398.
 399.
 400.
 401.
 402.
 403.
 404.
 405.
 406.
 407.
 408.
 409.
 410.
 411.
 412.
 413.
 414.
 415.
 416.
 417.
 418.
 419.
 420.
 421.
 422.
 423.
 424.
 425.
 426.
 427.
 428.
 429.
 430.
 431.
 432.
 433.
 434.
 435.
 436.
 437.
 438.
 439.
 440.
 441.
 442.
 443.
 444.
 445.
 446.
 447.
 448.
 449.
 450.
 451.
 452.
 453.
 454.
 455.
 456.
 457.
 458.
 459.
 460.
 461.
 462.
 463.
 464.
 465.
 466.
 467.
 468.
 469.
 470.
 471.
 472.
 473.
 474.
 475.
 476.
 477.
 478.
 479.
 480.
 481.
 482.
 483.
 484.
 485.
 486.
 487.
 488.
 489.
 490.
 491.
 492.
 493.
 494.
 495.
 496.
 497.
 498.
 499.
 500.
 501.
 502.
 503.
 504.
 505.
 506.
 507.
 508.
 509.
 510.
 511.
 512.
 513.
 514.
 515.
 516.
 517.
 518.
 519.
 520.
 521.
 522.
 523.
 524.
 525.
 526.
 527.
 528.
 529.
 530.
 531.
 532.
 533.
 534.
 535.
 536.
 537.
 538.
 539.
 540.
 541.
 542.
 543.
 544.
 545.
 546.
 547.
 548.
 549.
 550.
 551.
 552.
 553.
 554.
 555.
 556.
 557.
 558.
 559.
 560.
 561.
 562.
 563.
 564.
 565.
 566.
 567.
 568.
 569.
 570.
 571.
 572.
 573.
 574.
 575.
 576.
 577.
 578.
 579.
 580.
 581.
 582.
 583.
 584.
 585.
 586.
 587.
 588.
 589.
 590.
 591.
 592.
 593.
 594.
 595.
 596.
 597.
 598.
 599.

Literata, Monroe.

<i>Podalia pinnatifida</i> Mo.	T. E. S. 1891, 373	Tamara.
(1891), vol. 1	A. S. B. LIII 205	Marian.
(1893), ¹ ed. J. Linn. Soc.	XXI 55	
(1898), ¹ Hungen	P. I. Moths I 422	Java.
(1902), [revised], ¹	Göteborg. Svenska	inven.
Lapp. Indo austr.	II 403, t. 35 f. 11	
(1923) [revised], ¹		

vischnon, Lefebvre.

Oncometopha *inchoans*, Lat. Zool. Journ.
III 267 (1897).
[? *Homaliga lubrica* Fabr., Syst. Ent. p.
264 (1775), Kirby, Cat. Hel. I 825
(1892) (East Indies)].

- Gastrophysalis sulphurea*, Kollar, Hugel's (Hann.² 17 10
Kaschnir IV 471 (1848)²
- Amigdora basalis*, Wlk., Cat. VI 1415
(1855)³
- Amigdora prasinata*, Wlk., Cat. VI 1417
(1855)⁴
- Amigdora pallida*, Wlk., Cat. VI 1417
(1855)⁵
- Trabula maharandula*, Mo., P. Z. S. 1865,
621 (1865)⁶
- Trabula rishnu* Hampson, F. I. Moths I
121-122, f. 293 (1892) [redescr. f.,
Mo., Lep. Ceylon II 146, t. 138 ff. 1,
1a, 1b, 2, 2a, 2b (1893)⁷; Hampson,
Ill. Het. IX 3 (1893)⁸, Swinh., T. E. S.
1895, 28 (1895)⁹; Leach, T. E. S. 1899,
113 (1899)¹⁰; Dudgeon, B. J. XIII
410 (1901)¹¹; Lefroy, Ind. Ins. Life,
p. 498, tab. 66 (1909)¹²; Fletcher,
Rept. Second Entl. Meeting, pp. 87,
216 (1917)¹³; *id.*, Rept. Third Entl.
Meeting, I 103 (1919)¹⁴
- Trabula rishnu*, Kirby, Cat. Het. I 325
(1892) [*rishnu*, err. typogr.]¹⁵,
Grünberg, Seitz Lep. Pal. II 166, t. 27
f. a (1911) [larva descr. f.¹⁶, *id.*, Lep.
Indo-austr. II 403, t. 35 ff. c (1923)¹⁷
- Larva descr. f.¹⁸ ¹², on *Polygonum*
*orientale*¹¹, *Ricinus communis*¹² ¹³ ¹⁴, *Eugenia jambolana*¹²,
*Shorea robusta*¹², *Terminalia catappa*¹², cultivated *Geranium*¹⁴
and rose¹⁴, *Quisqualis*¹⁴, etc.

18. *Lenodora*, Moore (1883).

- Lenodora*, Mo., Lep. Ceylon II 144-145 (1883); Type: *vittata*, Wlk.
Hampson, F. I. Moths I 422-423
(1892) [redescr.], Grünberg, Seitz
Lep. Indo-austr. II 404 (1923)
[redescr.].

crenata, Hampson.

Lenodora crenata, Hampson, B. J. XIII Horton Plains (Ceylon).^{1 2}
 233 (1900)¹; Hampson, B. J. XVI 197
 (1905) [male descr.];² Grünberg, Seitz
 Lep. Indo-austr. II 404, t. 33 f. 7
 (1923) [redescrip.].³

hyalomelæna, Hampson.

Lenodora hyalomelæna, Hampson, B. J. Palnis (7,000 ft.).
 XVI 197, t. D. f. 9 (1905)¹; Grünberg,
 Seitz Lep. Indo-austr. II 404, t. 40
 f. 6 (1923) [redescrip.].³

pallidochæra, Hampson.

Lenodora pallidochæra, Hampson, F. I. Khasia.^{1 2}
 Moths IV 187 (1896)¹, Grünberg,
 Seitz Lep. Indo-austr. II 404, t. 40
 f. a (1923) [redescrip.].³

semihyalina, Swinhoe.

Lenodora semihyalina, Swinh., T. E. S. Nagas.^{2 3}
 1890, 196, t. 6 ff. 10, 16 (1890)¹, Rangoon.²
 Hampson, F. I. Moths I 421 (1892) Baesein.²
 [redescrip.];² Grünberg, Seitz Lep. Indo-
 austr. II 404, t. 35 [as *semihyalinata*]
 (1923) [redescrip.].³ E. Pegu.²

signata, Moore.

Lenodora signata, Mo., T. E. S. 1884, 371 Bengal.¹
 (1884)¹, Hampson, F. I. Moths I 423-
 424 (1892) [redescrip.];² Grünberg, Seitz Dehra Dun.²
 Lep. Indo-austr. II 404, t. 35 f. f [forma Bombay.^{2 3}
fusca] (1923) [redescrip.].³ Nilgiris.^{2 3}
Lenodora fasciata, Mo., T. E. S. 1884,
 374 (1884)⁴; Hampson, Ill. Het. VIII
 65, t. 142 f. 6 (1891).⁵
Lenodora fusca, Mo., T. E. S. 1884, 374
 (1884).⁶

vittata, Walker.

- Lastocampa vittata*, Wlk., Cat VI 1410 Almora.²
 (1855) [N. India].¹ Raipur (C. P.)
Mimosa subcostalis, Wlk., Cat XXXII Throughout South India.³
 476 (1865).² Ceylon.^{2 3 4}
Leptodora subcostalis, Mo., Lep. Ceylon Colombo.⁵
 II 145, t. 137, ff 3, 3a, 3b (1883).³ Kandy.⁵
Tanodora vittata, Hampson, F. I. Moths I Pundaluoya.⁵
 423, f. 291 (1892) [redeser].¹, *id.*, III Peradeniya
 Hor. IX 73, t. 161 ff. 1, 11 (1893)
 [redeser.]; Grünberg, Seitz Lep. Indo-austr. II 404, t. 35 f. f (1923)
 [redeser.].⁶
Larva descr.^{2 3 6}, on Gramineae.^{2 6}

19. Estigona, Moore (1859).

- Estigona*, Mo., Cat. Lep. E. I. Co. Mus. II 426 Type *pardalis*, Wlk.
 (1859), Mo., Lep. Ceylon II 118-149
 (1883); Hampson, F. I. Moths I 421 (1892)
 [redeser.]; Grünberg, Seitz Lep. Pal. II
 169-170 (1911), *id.*, Lep. Indo-austr. II
 405 (1923) [redeser.]

pardalis, Walker.

- Megasona pardale*, Wlk., Cat. VI 1453 Throughout India and
 (1855).¹ Ceylon.⁷
Estigona nandina, Mo., Cat. Lep. E. I. Masuri.
 Co. Mus. II 427 (1859)²; Mo., Lep. Khatmandu.
 Ceylon II 119, t. 112 ff. 1, 1a (1883).³ Siklun.⁸
Gastropacha abstracta, Wlk., Cat. XXXII Bhutan.⁹
 551 (1865).⁴ Saran.
Lebeda scriptiplaga, Wlk., Cat. XXXII Pusa
 569 (1865).⁵ Nagas.⁷
Estigona pardalis, Mo., Cat. Lep. E. I. Burma.¹⁰
 Co. Mus. II 426, t. 13a, ff 1, 1a (1859)⁶, Mergui.⁷
 Hampson, F. I. Moths I 424-425, f. 293 Andamans.⁷
 (1892) [redeser.];⁷ Dudgeon, B. J. Pundaluoya.¹¹
 XIII 410 (1901)¹, Grünberg, Seitz Ceylon.^{4 5}
 Lep. Pal. II 170, t. 27 f. c (1911)⁸,
id., Lep. Indo-austr. II 405, t. 35 f. f Java.^{1 7 9}
 (1923) [redeser.].¹⁰ Arabia.

Estigmena pavidula Hampson, Ill. Hel. IX
9 (1893)¹¹

20 *Odonestis*, Germar (1811)

- Odonestis*, Germar Prodr. p. 19 (1811) Type: *pallidus*, Germ.
Hampson, F. I. Moths I 425 (1892) [redescrip.] (Harpag.);
Grünberg, Seitz Lep. Indo-austr. II 407
(1923)
Cosmotriche, Hubner, Verz. p. 188 (1822), Type: *pallidus*, Linn.
Grünberg, Seitz Lep. Pal. II 163-164 (1911)
[redescrip.]; *id.*, Lep. Indo-austr. II 406
(1923) [part]
Chrostogaster, Hubner, Verz. p. 189 (1822); Type: *prunus*, Linn.
Hampson, B. J. XXIII (1901) [redescrip.]
Odonestis, Wlk., Cat. VI 149 (1855). Type: *pallidus*, Linn.

castanea, Hampson.

- Odonestis castanea*, Hampson, F. I. Moths Darjiling²
I 426 (1892)¹; *id.*, B. J. XIII 410 Sikkim^{1, 2}
(1901)²; Grünberg, Seitz Lep. Indo-
austr. II 407, t. 32 f. b (1923) [redescrip.]
[*Cosmotriche*].³

divisa, Moore.

- Odonestis divisa*, Mo., P. Z. S. 1879, 408 Sikkim^{2, 3}
(1879)¹, *id.*, Lep. Ceylon II 150, t. 141 Ceylon.^{1, 2, 3}
f. 2 (1883)²; Hampson, F. I. Moths I
426 (1892) [part]³; Elwes, B. J. XIII Sunda Is.³
410 (1901)⁴; Grünberg, Seitz Lep. China.⁵
Indo-austr. II 407, t. 32 f. a (1923) Japan.⁵
[redescrip.].⁵ Amur.⁵

.....*sulphurea*, Auriv.,

fossa, Swinhoe.

- Odonestis fossa*, Swinh., A. M. N. H. (6) Jaintia Hills.¹⁻⁶
XIX 410 (1897)¹; Hampson, B. J. XVI
198, t. D f. 14 (1905) [redescrip.]²;
Grünberg, Seitz Lep. Indo-austr. II
408, t. 33 f. c (1923) [redescrip.] [*Cosmo-
triche*].³

CATALOGUE OF INDIAN INSECTS

hampsoni, Leech.

Odonestis hampsoni, Leech, T. E. S. 1899, Pu-tsu-fong.^{1 2}
 115 (1899)¹; Grünberg, Seitz Lep.
 Indo-austr. II 408 (1923) [redescr.]
 [*Cosmotriche*].²

isocryma, Hampson.

Odonestis isocryma, Hampson, F. I. Moths Nagas (6,000 ft).¹
 I 427 (1892)¹; Grünberg, Seitz Lep.
 Indo-austr. II 407 (1923) [redescr.]
 [*Cosmotriche*].²

lata, Walker.

Amydona lata, Wlk., Cat. VI 1416 N.-W. Himalaya.³
 (1855)¹; Mo., Cat. Lep. E. I. Co. Mus. Sikkim.³
 II, t. 12a fl. 7, 7a (1859).² Sylhet.^{1 3}

Odonestis lata, Hampson, F. I. Moths I Burma.³
 425-426, f. 296 (1892) [redescr.]³; Ta-tsien-lu.¹¹
 Leech, T. E. S. 1899, 114 (1899)⁴; Chia-ting-fu.¹¹
 Dudgeon, B. J. XIII 410 (1901)⁵.

Cosmotriche lata, Grünberg, Seitz Lep. China.⁴
 Pal. II 165, t. 26 f. g (1911)⁶; *id*, Lep. Korea.^{4 6}
 Indo-austr. II 406-407, t. 32 f. c (1923) Japan.^{4 6}
 [redescr.].⁷ Siberia.^{4 6}

Lasiocampa decisa, Wlk., Cat. VI 1441 Sumatra.^{3 7}
 (1855) [N. India]², Elwes, B. J. XIII Java.^{3 7}
 410 (1901) [*Odonestis*; distinct from
lata].⁹

Lasiocampa inobtrusa, Wlk., T. E. S. (3)
 I 85 (1862)¹⁰; Leech, T. E. S. 1899,
 114-115 (1899) [*Odonestis*; distinct
 from *lata*].¹¹

Odonestis ossa, Swinh., A. M. N. H. (6)
 XLIX 410 (1897)¹²; Hampson, B. J. XI
 294 (1897) [syn. of *lata*].¹³

Larva descr.^{3 6 7}, on grasses.⁵

lidderdalii, Druce.

Odonestis lidderdalii Druce, A. M. N. H. Darjiling.¹ 2
 (7) III 471 (1899)³; Hampson, F. I.
 Moths I 233 (1900) [male redever.]²;
 Grunberg, Seitz Lep. Indo-austr. II
 408, t. 33 f. d (1923) [redever.] [*Osmotricha*].³

pruni, Linnæus.

Bombyx pruni Linn., Syst. Nat. (ed. X) Khasia.⁴
 I 498 (1758)¹; Hübner, Bomby. I 1-2.
 (1801?)² Samtara.⁵
Odonestis pruni Alph., Rom. Mém. IX
 133 (1897)³; Leach, T. E. S. 1899 117.
 (1899)⁴; Hampson, F. I. XX 111 (1909)
 [redever.] [*Chenopodius*]⁶; Grunberg,
 Seitz Lep. Pal. II 170, t. 27 f. F (1911)
 [redever.]⁶ Bithyna.⁷
*Larva desor.*⁸ C. Europa.² 5

purpurascens, Hampson.

Estigera purpurascens, Hampson, III Hist.
 IX 74, t. 189 f. 10 (1893).¹ Kohim Vall. p. 2.
 (Pechen)
Odonestis discolor, Hampson, F. I. Moths I
 426 (1892) [partim].²
Cometricha purpurascens, Grunberg,
 Seitz Lep. Indo-austr. II 197, t. 33
 f. d (1923) [redever.].³

pyriformis, Moore.

Odonestis pyriformis, Mo. P. Z. S. 1879,
 408, t. 31 f. 7 (1879)¹; Hampson, F. I.
 Moths I 427 (1892) [redever.]²; Dud-
 geon, B. J. XIII 411 (1901)³; Howes,
 l. c.⁴; Grunberg, Seitz Lep. Indo-
 austr. II 407, t. 32 f. B (1923) [redever.]
 [*Osmotricha*].⁵ Masuri.⁶
*Larva desor.*² Tongla (Sikkim, 10,000
 ft.)⁶
 Darjiling.⁷
 Sikkim (5,000 ft.).⁴

signata, Moore.

- Odonthis signata*, Mo., Lep. Ark. p. 76 Darjiling.^{1 4}
 (1879)¹, Hampen, F. I. Moths I 426 Sikkim (1,000 ft.).
 (1892) [redescrip?]: Dudgeon, B. J. Bhutan.³
 XIII 111 (1903)², Grünberg, Seitz
 Lep. Indo-austr. II 407, t. 32 f. B
 (1923) [redescrip.] [*Cynodirichis*].⁴

urda, Swinhoe.

- Chloroceryx urda*, Swinh., A. M. N. II (8) Khasis,¹
 XVI 178 (1915).²

II. Lasioampa, Schrank (1802)

- Lasioampa*, Schrank, Fauna Boica II (ii) 147. Type: *quercifolia*, Linn.
 154 (1802). [Europe].
Gastropacha, Ochsenheimer, Schmett. III 239 Type: *quercifolia*, L.
 (1810), Hampen, F. I. Moths I 428 (1892)
 [redescrip.], Grünberg, Seitz Lep. Pal. II 168
 (1911) [redescrip.]; id., Lep. Indo-austr. II
 406 (1923)
Phyllostoma, Hübner, Verz., p. 196 (1822). Type: *quercifolia*, L.

divaricata, Moore.

- Gastropacha divaricata*, Mo., T. E. S. Darjiling.^{1 2}
 1534, 374 (1884)¹; Hampen, F. I. Moths
 I 429 (1892) [redescrip.]; Grünberg,
 Seitz Lep. Indo-austr. II 409, t. 33
 f. c (1923) [redescrip.]⁴

khasiana, Swinhoe.

- Gastropacha khasiana*, Swinh., A. M. N. Khasis.^{1 2}
 II (7) XV 199 (1905)¹, Hampen, B. J.
 XX 111-112 (1910) [male redescrip.].²

undulifera, Walker.

Gastropacha undulifera Wlk., Cat. VI N India.¹
 1395 (1855)¹, Hmps., F. I. Moths I Dharmatala.^{2 3}
 428, f. 297 (1892) [redescr.]²; Grünberg, Seitz Lep. Indo-austr. II 406,
 t. 33 f. c (1923) [redescr.].³

vitellius, Oberthur.

Lasiocampa vitellius, Obth., Et. Lep. Tchang-kou
 Comp. V 337, t. 83 f. 785 (1911) ♂ (E. Tibet border).

22. Stenophylloides, Hampson (1892).

Stenophylloides, Hampson., F. I. Moths I 429, Type: *sikkima*, Mo
 f. 298 (1892), Grünberg, Seitz Lep. Indo-
 austr. II 406 (1923) [redescr.]

encausta, Hampson.

Stenophylloides encausta, Hampson., B. J. Simla.^{1 2}
 XIII 233-234 (1900)¹; Grünberg, Seitz
 Lep. Indo-austr. II 406, t. 33 f. G [as
encrusta] (1923) [redescr.].²

sikkima, Moore.

Gastropacha sikkima, Mo., Lep. Atk. pp. Darjiling.^{1 2 4}
 75-76 (1879)¹.
Stenophylloides sikkima, Hampson.,
 F. I. Moths I 429-430, f. 298 (1892)
 [redescr.]²; *id.*, B. J. XIII 411 (1901)²
 Grünberg, Seitz Lep. Indo-austr. II
 406, t. 32 f. d (1923) [redescr.].⁴

sinuata, Moore.

Gastropacha sinuata, Mo., Lep. Atk. p. 76 Darjiling.^{1 2}
 (1879)¹; Hmps., F. I. Moths I 428-
 429 (1892) [redescr.].²
Stenophylloides sinuata, Grünberg, Seitz
 Lep. Indo-austr. II 406, t. 33 f. F
 (1923) [redescr.].³

75 species.



INDEX TO GENERA.

(NOTE.—The numbers refer to the numbers of the genera and not of the page. Names in italics are treated as synonyma.)

<i>Alompra</i> , 13.	<i>Lasiocampa</i> , 21.
<i>Amydno</i> (Trabala).	<i>Lebeda</i> , 5.
<i>Arguda</i> , 7.	<i>Lenodora</i> , 18.
<i>Bharatta</i> ♀.	<i>Malicosoma</i> (Clisiocampa).
<i>Biuma</i> , 1.	<i>Metanastria</i> (Dendrolimus).
<i>Chakra</i> (Dendrolimus).	<i>Odonestis</i> (Odonestis).
<i>Chilera</i> , 11.	<i>Odionestis</i> , 20.
<i>Chrysomelodes</i> (Odionestis).	<i>Odontocraspis</i> , 10.
<i>Clisiocampa</i> , 12.	<i>Osia</i> (Dendrolimus).
<i>Cinnobryche</i> (Chionestis).	<i>Paralebeda</i> , 4.
<i>Cinnocarpella</i> , 16.	<i>Phyllolema</i> (Lasiocampa).
<i>Dendrolimus</i> , 6.	<i>Radhica</i> (Arguda).
<i>Estigona</i> , 19.	<i>Stenophyllodes</i> , 22.
<i>Eutricha</i> (Dendrolimus).	<i>Suana</i> , 3.
<i>Gastropacha</i> (Lasiocampa).	<i>Syrastrena</i> , 8.
<i>Kisala</i> , 14.	<i>Taragama</i> , 2.
	<i>Trabala</i> , 17.
	<i>Trichura</i> , 15.

INDEX TO SPECIES.

(NOTE.—Names in italics are treated as synonyma and should be looked up under the names given in roman letters. The generic name noted against each specific name is that of the genus in which the species is placed in this Catalogue. The specifics in the genus are placed in alphabetical order and the position of the genus is shown in the Index to Genera.)

<i>abstracta</i> (paralis), <i>Estigona</i> .	<i>castanea</i> , <i>Odonestis</i> .
<i>aconyta</i> , <i>Dendrolimus</i> .	<i>castaneoptera</i> (dorsalis), <i>Taragama</i> .
<i>albicans</i> (siva), <i>Taragama</i> .	<i>cervina</i> (concolor), <i>Suana</i> .
<i>albipicta</i> , <i>Arguda</i> .	<i>cheila</i> (latipennis), <i>Dendrolimus</i> .
<i>ampla</i> , <i>Dendrolimus</i> .	<i>cinnamomea</i> , <i>Bharatta</i> .
<i>ampla</i> (concolor), <i>Suana</i> .	<i>concolor</i> , <i>Suana</i> .
<i>basalis</i> (viachnou), <i>Trabala</i> .	<i>crenata</i> , <i>Lenodora</i> .
<i>berroba</i> , <i>Arguda</i> .	<i>crinodes</i> (plagifera), <i>Paralebeda</i> .
<i>bhira</i> (hyrtaca), <i>Dendrolimus</i> .	
<i>dimaculata</i> (concolor), <i>Suana</i> .	<i>decisa</i> (luta), <i>Odonestis</i> .
<i>bi-partita</i> , <i>Arguda</i> .	<i>decurtata</i> , <i>Arguda</i> .
<i>brahma</i> (hyrtaca), <i>Dendrolimus</i> .	<i>dieckmanni</i> (subpurpurea), <i>Dendrolimus</i> .

divaricata, Lasiocampa.
 divisa, Odonestis
 divisa (purpurescens), Odonestis
 dorsalis, Taragama

encausta, Stenophylloides.
 erectilinea, Arguda.
 excellens (undans), Dendrolimus

fasciata (latipennis), Dendrolimus.
 fasciata (signata), Lenodora.
 fasciculata (undans), Dendrolimus.
 ferruginea, Aloupra.
 ferruginea (ampia), Dendrolimus.
 flia, Dendrolimus.
 flammans, Bharatta
 flavonariognata, Clisiocampa.
 flavosignata, Kosala.
 flavovittata, Arguda.
 fovea, Odonestis
 fulgens, Dendrolimus.
 fusca (signata), Lenodora
 fuscomarginata (lineata), Dendrolimus.

ganesa (siva), Taragama.
 grisea (latipennis), Dendrolimus

hampsoni, Odonestis
 hasora, Odontocraspis.
 hibisci (vischnou), Trabala.
 hyalomelana, Lenodora.
 hyperanthera (dorsalis), Taragama
 hyrtaca, Dendrolimus.

igniflua (dorsalis), Taragama.
 indica, Clisiocampa
 indicus, Taragama (Aloupra ferruginea)
 inobtrusus (lata), Odonestis
 intensa (dorsalis), Taragama.
 irrorata, Trabala.
 isocyma, Odonestis.

khasiana, Lasiocampa.
 khasiana, Trichiura.

lata, Odonestis.
 laticis (hyrtaca), Dendrolimus.
 latipennis, Dendrolimus.
 lidderdali, Odonestis.
 lidderdali, Dendrolimus.

lineata, Dendrolimus.
 lyca (hyrtaca), Dendrolimus.

mahanada (vachnou), Trabala.
 mako, Sphaerocla.
 modulata, Kosala.

nanda, Dendrolimus.
 nandini (pardalis), Etipena.
 nobilis, Labeda

obliquifascia, Dendrolimus
 opusana (aconyta), Dendrolimus.
 rosea (lata), Odonestis.

pallida (vachnou), Trabala.
 pallidolirion, Lenodora.
 pallidum (piva), Taragama
 pardalis, Estigena
 placida (latipennis), Dendrolimus.
 plagiata (hyrtaca), Dendrolimus.
 plagifera, Paralebeda.
 praena (vachnou), Trabala.
 pruni, Odonestis.
 purpurescens, Odonestis.
 pyriformis, Odonestis.

quadrifasciata (aconyta), Dendrolimus

roosa, Dendrolimus.
 rectilinea, Arguda.
 repanda, Dendrolimus
 rosea, Arguda.
 rubra (subpurpurea), Dendrolimus.
 rufa, Kosala.

sanguinea, Kosala.
 scriptipala (pardalis), Estigena.
 semihyalina, Lenodora.
 signata, Lenodora.
 signata, Odonestis.
 skkima, Stenophylloides.
 similis, Chilena
 sinuata, Stenophylloides.
 siva, Taragama.
 stigma (lidderdali), Dendrolimus
 strigula, Chilena.
 subcostalis (vittata), Lenodora.
 subparallel (aconyta), Dendrolimus

<i>subpurpurea</i> , Dendrolimus.	<i>unicolor</i> , <i>excellent</i> (undans), Dendrolimus.
<i>substrigosa</i> (aconyta), Dendrolimus.	<i>urda</i> , Odonestus.
<i>sulphurea</i> (divisa), Odonestus.	<i>variegata</i> (latipennis), Dendrolimus.
<i>sulphurea</i> (vischnou), Trabala.	<i>venustum</i> (siva), Taragama.
	<i>vinato</i> , Arguda.
<i>testacea</i> , Chasocampa.	<i>vischnou</i> , Trabala.
<i>torrida</i> , Cimocraspeda.	<i>vischnou</i> (vischnou), Trabala.
<i>trifascia</i> (aconyta), Dendrolimus.	<i>visnu</i> (vischnou), Trabala.
	<i>vitellus</i> , Lasiocampa.
<i>undans</i> , Dendrolimus.	<i>vitta</i> , Dendrolimus.
<i>undulifera</i> , Lasiocampa.	<i>vittata</i> , Lenodora.
<i>undulosa</i> , Bhima.	<i>vulpes</i> , Chasocampa.
	<i>vulpina</i> (latipennis), Dendrolimus.

1 ALATTA
GOVERNMENT OF INDIA PRESS
4, BARTING STREET

